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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,236	12/01/2003	Jin Woo Lee	SI-0048	9765
34610	7590	05/18/2005	EXAMINER	
FLESHNER & KIM, LLP			KUNDU, SUJOY K	
P.O. BOX 221200				
CHANTILLY, VA 20153			ART UNIT	PAPER NUMBER
			2863	

DATE MAILED: 05/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

4-A

Office Action Summary	Application No. 10/724,236	Applicant(s) LEE ET AL.	
	Examiner Sujoy K. Kundu	Art Unit 2863	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-14, 17, 19 and 21-32 is/are rejected.
- 7) ☒ Claim(s) 15, 16, 18 and 20 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 rejected under 35 U.S.C. 102(e) as being anticipated by Berliner et al (6,631,126).

With regards to claims 1-4, 8, 21-24, 28-29 Berliner teaches a method of gathering statistical information comprising:

calculating a holding time (Column 3, Lines 54-60) for a single call (Column 4, Lines 6-9); and

calculating a holding time (Column 3, Lines 54-60) of a soft added call (Column 4, Lines 10-17).

With regards to claim 5, Berliner teaches a method for calculating the holding time (Column 3, Lines 54-60) of the single call comprises counting a period when an originated/terminated call is set up (Column 3, Lines 60-64).

With regards to claims 6 and 9, Berliner teaches a method for calculating the holding time comprises counting the holding time from a point of time when a channel resource is occupied due to a call origination/termination (Column 5, Lines 57-61) to a

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base station to a point of time when the channel resource is withdrawn (Column 5, Lines 57-61, Column 6, Lines 12-14).

With regards to claims 7, 10-11, 25-27, 30-32 Berliner teaches a method for calculating the holding time comprises counting the holding time from a point of time when a channel resources is occupied due to receipt of a call origination/termination (Column 5, Lines 57-61) request message to a point of time when a soft add notification message (Column 6, Lines 17-26) is received from another base station after setup in response to the call origination/termination request, and counting the holding time from a point of time when the soft drop notification message (Column 6, Lines 55-57) is received from the another base station to a point of time when the channel resource is withdrawn due to completion of the soft added call (Column 5, Lines 57-61, Column 6, Lines 12-14).

With regards to claim 12, Berliner teaches a method for calculating a holding time by counting a period of an originated/terminated call (Column 3, Lines 54-60); and

calculating a handoff holding time by counting a period when soft added calls are set up due to a handoff (Fig. 4, Column 7, Lines 32-41).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 13-14,17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Berliner et al (6,631,126) as in view of Bennett et al (US 2004/0077358 A1).

With regards to Claim 13, Berliner teaches all the limitations as discussed above, however Berliner does not teach a method for calculating the holding time comprise: setting up a single call by a source base station's detecting the originated/terminated call and allotting a channel resource; and starting a first holding timer.

However, Bennett discloses a method for calculating the holding time comprise: setting up a single call by a source base station's detecting the originated/terminated call and allotting a channel resource; and starting a first holding timer (Fig. 5, Part ST3, Pages 2-3, Paragraph 23).

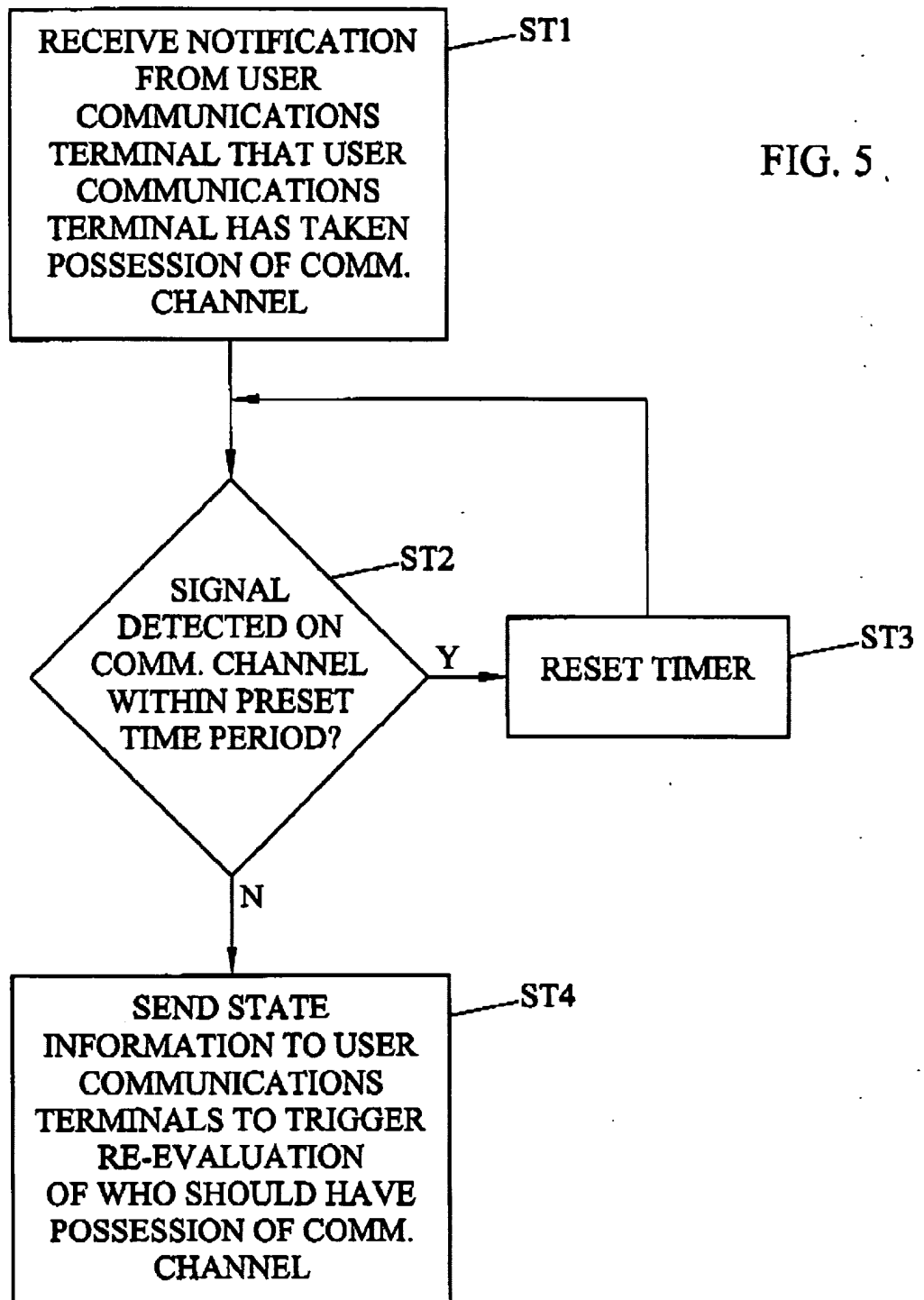
It would have been obvious to one of ordinary skill in the art at the time the invention was made to create a method for calculating the holding time comprise: setting up a single call by a source base station's detecting the originated/terminated call and allotting a channel resource; and starting a first holding timer as taught by Bennett into Berliner for the purpose of providing increase in operational time and improve methods and systems for arbitration in a push to-talk communication systems (Bennett, Background Art, Paragraph 3).

With regards to claims 14,17,19 Berliner teaches all the limitations as discussed above, however Berliner does not teach a method when the source base station receives a soft added notification message from another base station, calculating the holding time further comprises calculating a first holding time based on said first holding timer.

However, Bennett discloses a method when the source base station receives a soft added notification message (Fig. 5, Part ST1) from another base station, calculating the holding time further comprises calculating a first holding time based on said first holding timer (Fig. 5, Part ST3, Pages 2-3, Paragraph 23).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to create a method for calculating the holding time comprise: setting up a single call by a source base station's detecting the originated/terminated call and allotting a channel resource; and starting a first holding timer as taught by Bennett into Berliner for the purpose of providing increase in operational time and improve methods and systems for arbitration in a push to-talk communication systems (Bennett, Background Art, Paragraph 3).

FIG. 5



Allowable Subject Matter

Claims 15, 16, 18, 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance: Claims 15, 16, 18, 20 Bennett teaches the use of a timer to calculate a holding time; the timer is reset in order to further calculate a second holding time. The primary reason for the allowance of claims 15,16,18,20 are the inclusion of the method steps of: a new single call for a target base station being set up and the other base stations being dropped to further calculate a second holding time. It is these features found in the claims, as they are claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujoy K. Kundu whose


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telephone number is 571-272-8586. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SKK
05/10/05



John Barlow
Supervisory Patent Examiner
Technology Center 2800